Data Sheet
High Performance Door

RapidRoll® 355

Sophisticated technology to assure safety.

The combination of leading technology and modern industrial design guarantees a top class RapidRoll door.

All-round safety assured by two patented systems.

Exceptional wind resistance due to a stable curtain tension system and wind tabs in the side frames.

MCC VectorControl

Next generation in High
Performance Door control systems

INTERIOR ● ○ EXTERIOR
PROCESS ○ ○ SERVICE

High Performance Door RapidRoll® 355

ADVANTAGES OF ALBANY RAPIDROLL® 355:

- all-round safety control through:
- pre-running safety photocell and door line photocell for touchless protection of people and goods
- minimising damages at collisions through the self repairing knock-out-capability integrated in the bottom profile
- good wind resistance by curtain tensioning and windbreak tabs in the side frames
- alternatively door curtain of clear PVC or of RollTex® Plus

APPLICATION

- as an interior or exterior door between two factory areas
- within fully automated robot operations
- within automated transport systems

DESIGN

The side frames of the door are made of extruded anodised aluminium. The self-supporting side frames must be fixed only on the head- and the base plates on each side. To service the door, the front plate of the side frame can easily be opend or refitted. The bottom profile and the top roll are made of aluminium too. As standard the bottom profile has a knock-out capability.

DOOR CURTAIN

The door curtain is made of clear PVC with blue reinforcement stripes. Optional other colours can be choosen. For applications with high mechanical stress alternatively a curtain of RollTex® Plus is available. As standard the door has a tensioning system for extra strength against wind pressure. The edges of the door curtain are reinforced with special wind tabs which are guided in the side frames.

KNOCK-OUT CAPABILITY

A self repairing knock out capability is standard.

DRIVE UNIT

Gear motor. Position can be chosen right- or left-hand.

CONTROL SYSTEM

Standard ACS 50. Optional innovative frequency converter control system MCC^{VectorControl} for smooth, dynamic door operation.

MANUAL ACTIVATION

In the event of power failure, the door can be opened by releasing the brake manually. Depending on the width/heigt ratio, the door opens partially supported by the springs of the counter balance.

SAFETY FEATURES

The door is designed according to the Workplace Directive of the UVV regulations and the harmonized CE Guidelines including the EN 13241-1.

INDICATION OF RISK

The security of the door is designed for normal use and for vehicles in an industrial environment corresponding to the harmonized CE-Guidelines. In consideration of the on site situation – especially in case of pedestrian use – additional safety measures, such as additional actuators may be required. In addition, special environmental conditions may impact the choice of door type. For more information or to schedule an on-site inspection, please contact an Albany Door Systems sales engineer.

Technical Data		
Interior door	suitable	
Exterior door	suitable	
Wind resistance	class 2 - EN 12424	
Door dimension (mm)	For details please note general drawing!	
DW min. / max.	1000 / 4000 mm	
DH min. / max.	1500 / 4200 mm	
Opening direction	vertical	
Surface		
Side frames	aluminium anodised	
Bottom profile	aluminium anodised	
Top roll	aluminium	
Coloured surface	•	
Covers (option)		
Top roll cover	•[1]	
Motor cover	•[1]	
Door curtain (alternatively)		
PVC with blue reinforcement stripes	✓	
PVC with coloured reinforcement stripes	•	
PVC with silicon free reinforcement stripes blue/black	•	
RollTex® Plus *	•	
* optional with windows	•	
Wind tabs	✓	
Curtain tension	✓	
Counterbalance	✓	
Drive unit	electrical	
Chain drive	•	
Control systems		
ACS 50	✓	
MCC^{Vectorcontrol}	•	
Safety		
Electrical safety contact edge	•	
Pre-running safety photocell	✓	
Door line photocell	✓	
Fall down protection	✓	tension springs
Self opening	✓	
Knock-out capability	✓	
Manual activation	✓	with bowden lever operated from the floor
Second bowden lever	•	
Extended flexible seal	•	

Speed (m/s)	**ACS 50**	**MCC^{VectorControl}**
Open/close up to max. / m/s	1,0/1,0	2,5/1,0
Fuse protection	6,3 A	12 A
Control voltage	24 V DC	24 V DC
Protection	IP 55	IP 55
Motor power / kW	1,1 kW	1,1 kW
3L/(N)/PE 220/230/380/400/415V; 50 Hz	✓[2]	
3L/(N)/PE 380/400/415/440/480V; 50/60 Hz		✓[3]
Additional opening heights	–	•
Potential free contacts max. 250 V	✓	•
Traffic light function		
Without direction detection	✓	✓ 24 V DC
With direction detection	–	✓ 24 V DC
Flashing alarm light	✓	✓ 24 V DC
Error message	✓LED´s	✓ plain text

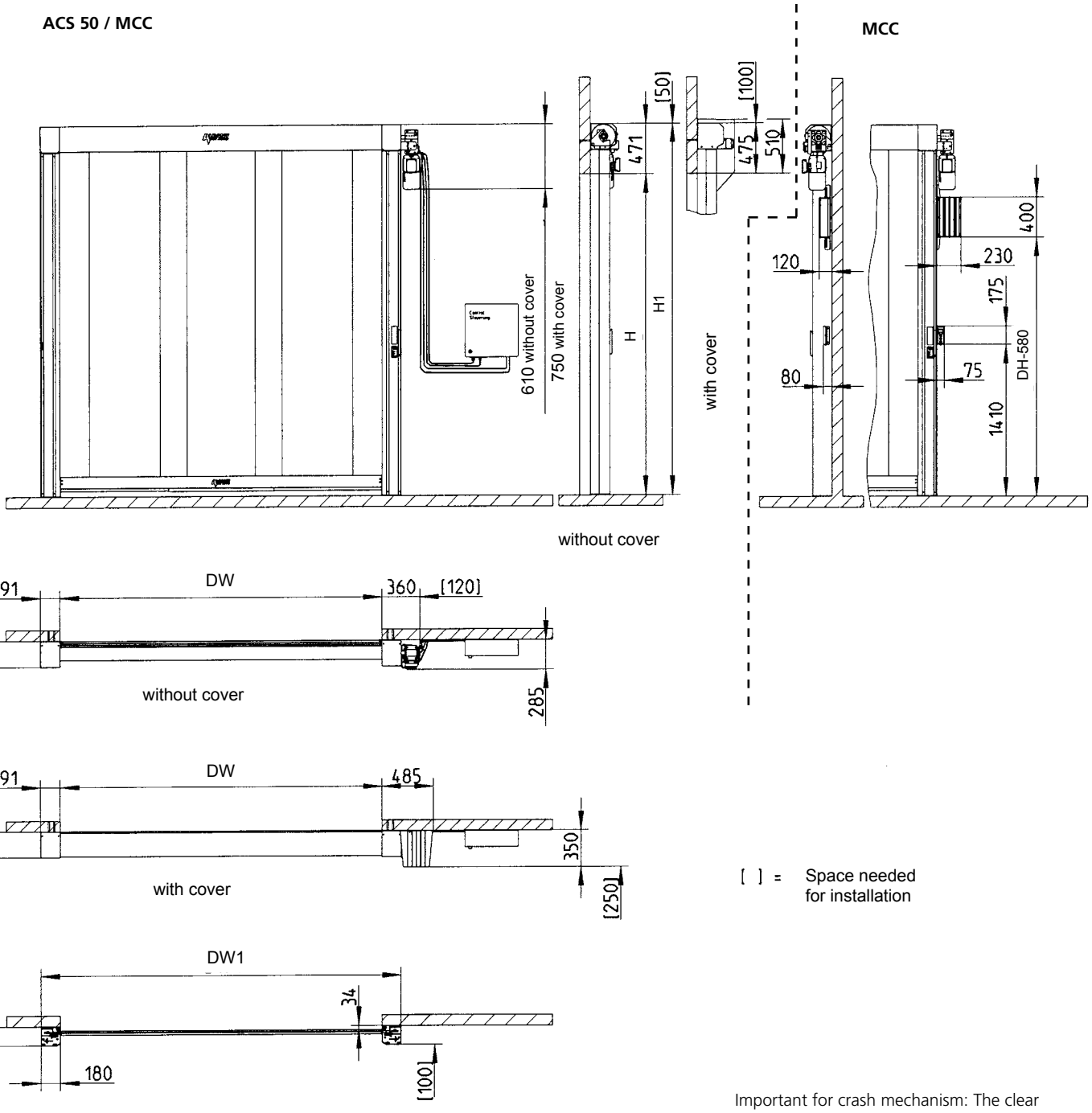
•Option ✓Standard – not available

[1] For doors of height ≤ 2500 mm the use of top roll and motor cover is required according to standard EN 13241-1.

[2] Transformator necessary for 440/480/500 V.

[3] Transformator necessary for 220/230/500 V.

General Drawing RapidRoll® 355

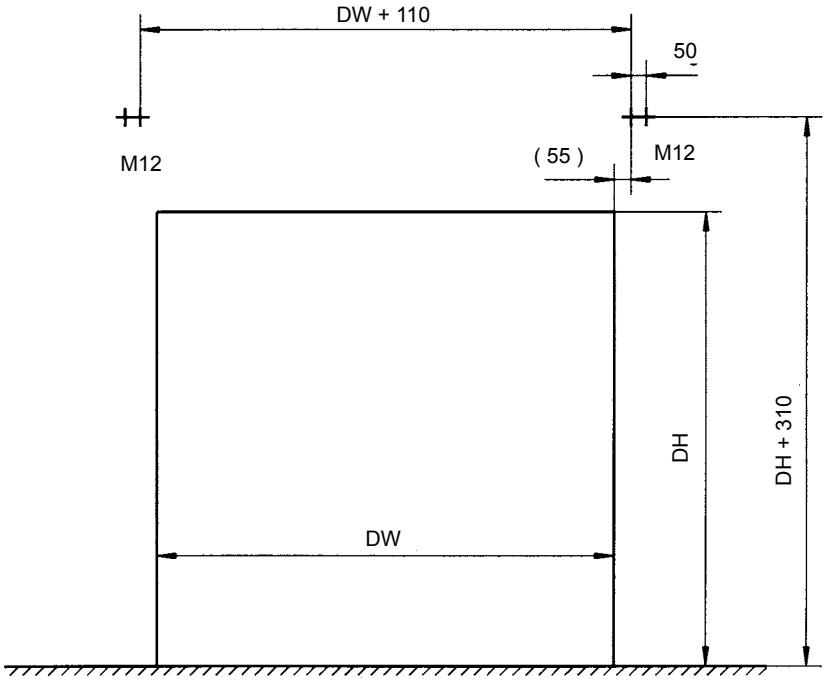


[ ] = Space needed for installation

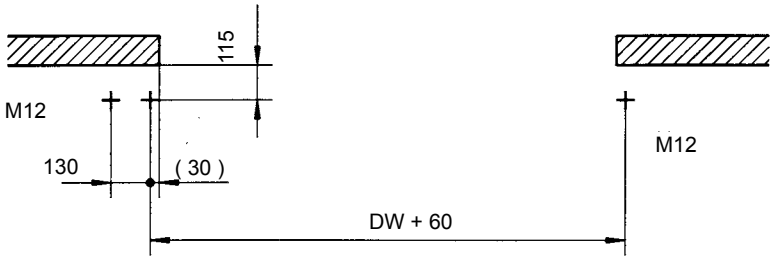
Important for crash mechanism: The clear opening between the side columns has to be less or exactly the same as the door width.

Date: 2006-05-23

Fixing Plan RapidRoll® 355



Fixing over lintel



Fixing fo floor

Drawing-No.: 8300005/3
Date: 2003-03-18

Product Features RapidRoll® 355

TOP ROLL COVER[1)]
Standard: delivered without top roll cover.
Option: top roll cover made of anodised aluminium.

MOTOR COVER[1)]
Standard: delivered without motor cover.
Option: motor cover in plastic.

MOTOR POSITION
Available left or right hand side.

CHAIN DRIVE
An option chain drive can be used when space is at a premium at the sides. It is fitted in front of the side frames.

CONTROL BOX
Depending on requirements for opening/closing speed and actuators, two different control systems can be chosen: Contactor control system ACS 50 or innovative frequency converter control system MCC[VectorControl].

BOTTOM PROFILE
Bottom profile from aluminium. In case of an uneven floor, an extended flexible seal is available as option.

DOOR CURTAIN
Standard: clear PVC with blue reinforcement stripes.
Option: RollTex curtain with/without windows or PVC with coloured reinforcement stripes.

SIDE FRAME
Side frames from anodised aluminium.

KNOCK-OUT CAPABILITY
A self repairing knock-out capability is standard. After a crash the door stopps and.

SAFETY FEATURES
The door is equipped with a pre-running safety photocell and a door line photocell.
Option: an electrical safety contact edge can be choosen.

ACTUATORS
Individual applications can include additional safety devices. Actuators such as infrared, radar detectors, push buttons, vehicle detector loops or radio transmitters can be added to the control system. Please contact us for additional information for your specific needs.

Notes:
[1)] For doors of heigh ≤ 2500 mm the use of top roll and motor cover is required according to standard EN 13241.

Products shown may include additional options.

Frequency converter control system MCC[VectorControl]

Compact dimensions and integrated door design. Easy wiring by pluggable connections.

Compact frequency converter control system with vector control technology for smooth operation of the door.

Display unit in a small box placed at the side frame.

Display unit with foil keys and a graphical display offering easy operation and maintenance.

Product Applications RapidRoll® 355

Products shown may include additional options.

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